and, if necessary, legislate for the better conduct of such irrigations?

Mr. V. K. ARAVINDAKSHA MENON (*Chief Engineer*).

There have been no complaints from ryots about the working of these systems. Hence no necessity has arisen for legislation.

Staff of the Water-Works at Chowwara.

Mr. A. B. SALEM (*Jews*).

89. Will the Government be pleased to inform:—

i. the name, designation and pay of the officer in immediate charge of the pumping station and Water-works at Chowwara,

ii. the name, designation and pay of the outdoor staff kept for maintaining the Works in order and for the inspection of the pipe line and service-connections,

iii. the name, designation and pay of the clerical establishment in connection with the Water-works,

iv. the rates charged for the supply of water to,

(a) Ernakulam townsmen, in excess of the free supply,

(b) Messrs: the Tata Oil Mills Co., Ltd., Ernakulam,

(c) Messrs: the South Indian Railway Co., Ltd., Ernakulam,

(d) Messrs: the Standard Oil Company of New York, Ernakulam,

(e) The British Cochin Municipality or Municipal contractor for taking water in casks—for consumption in British Cochin—across the backwater, in boats?

Mr. V. K. ARAVINDAKSHA MENON (*Chief Engineer*).

i. Permanent.—N. Sanjiva Rao, Superintendent, Water-works, Chowwara, pay Rs. 125—175.

Acting.—C. Gopala Menon.

ii. Permanent.—Augustine Pappali, Water-works Overseer, pay Rs. 60—80 *plus* Rs. 10 cycle allowance.

Acting.—M. Almeyda.

Distribution System.

		Rs.
Ikkoran Cherunni	Blacksmith Fitter	18—20
Jacob Levera	Lineman	15—20
K. Augustine	do	15—20
K. Vareed	do	13—18

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A. Ittaman	Lineman	Rs.	13—18
P. Devassi	Turnkey		12—15
H. Krishna Mudalali	do		12—15
V. Krishna Menon	Overseer's Lascar		10
P. B. Anthoni	Reservoir Watchman		10

Head Works, Chowwara.

M. Almeyda	Driver	Rs.	40—60
D. M. Raju	do		40—60
M. K. Velayudhan Pillai	Fitter		15—20
M. Achyuta Menon	Lascar		12
E. Raman Menon	do		12
K. Padmanabhan Nayar	do		12
Ooril Ouseph	Watchman		10

iii. There is no clerical establishment separately for the Water-works.

iv.

(a) Rs. 2 per 1,000 gallons
(b) Annas 12 do
(c) Rs. 2 do
(d) Rs. 2 do
(e) Rs. 2 do

Mr. A. B. SALEM (*Jews*).

90. Will the Government be pleased to state the quantity supplied to each of the above class of consumers of water during the last eleven months ending 30th Mithunam 1100?

Mr. V. K. ARAVINDAKSHA MENON (*Chief Engineer*).

A statement giving the required particulars is appended (*Vide Appendix 2*).

Mr. A. B. SALEM (*Jews*).

91. Will the Government be pleased to inform how many sets of machinery for pumping water exist at present and whether the same is sufficient to ensure a constant supply of water to the town, in case the one now in working order gets out of repairs?

Mr. V. K. ARAVINDAKSHA MENON (*Chief Engineer*).

There are two engines, two deep well pumps, one filter, and one turbine pump working at present. A new turbine pump has since been received; and, when this is installed, there will be practically two sets, one set serving as a stand-by.

Mr. A. B. SALEM (*Jews*).

92. Will the Government be pleased to inform

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the steps already taken or the plans they have, if any, to ensure a safe and constant supply of water to the inhabitants of Ernakulam, which is almost entirely dependent upon pipe water supply at present?

Mr. V. K. ARAVINDAKSHA MENON (*Chief Engineer*).

The attention of the member is invited to the Government Order, dated the 7th of April 1922, C. No. 1241/96 (P. W. D.), published in the Government Gazette, dated the 10th of Medam 1097.

Introduction of Meters in the Town.

Mr. A. B. SALEM (*Jews*).

93. Will the Government be pleased to lay on the table their reasons for mooting the idea of introducing meters in the town?

Mr. V. K. ARAVINDAKSHA MENON (*Chief Engineer*).

A note on the subject prepared by the Chief Engineer is appended (*Vide Appendix 3*).

Mr. A. B. SALEM (*Jews*).

94. Will the Government be pleased to inform if they are aware that metering places a check to the legitimate and necessary enjoyment of water by the people, and that the same is introduced mainly only in service-connections, laid for industrial and commercial purposes and in places such as hotels, etc., where they are bound to maintain a sufficiently ample minimum quantity of water supply for the enjoyment of the inmates thereof?

Mr. V. K. ARAVINDAKSHA MENON (*Chief Engineer*).

(a) The metering of houses-service-connections does not, in any way, restrict the legitimate use of water for domestic purposes, as a free allowance is made for such purposes. It checks only the extravagant use of water. It will be recognised that it is well nigh impossible for any system of Water-works to be designed to give an unlimited use of water for all enjoyments of a community. The design is based on a certain allowable limit—a maximum of fifteen gallons per head per day in the case of our Works—and, when this limit is reached and more demand for water is made, it is obvious that the system must fail. Hence the adoption of meters to check exorbitant use of water and bring down the consumption to the limit of the design of the Works.

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APPENDIX 2.

Statement showing the quantity of pipe water in gallons supplied to the Ernakulam Town and (other institutions for 12 months from July 1924)

No.	Names of institutions, etc.	July 1924	August	September	October
1.	The Tata Oil Mills Co., Ltd.	1,64,500	1,28,900	84,700	3,20,650
2.	The S. I. Railway Co., Ltd.	1,61,910	1,32,320	1,60,510	2,07,780
3.	The Standard Oil Co. of New York, Ernakulam.	5,630	4,570	5,520	9,070
4.	Ernakulam Town, including the supply to the Harbour Works.	96,56,360	81,48,855	85,97,570	93,29,350
5	The British Cochin Municipality.	1,400	3,800	4,700	5,150
		November	December	January 1925	February
1.	The Tata Oil Mills Co., Ltd.	3,00,000	1,88,560	2,47,940	3,52,100
2.	The S. I. Railway Co., Ltd.	2,04,070	1,74,840	2,39,270	2,89,830
3.	The Standard Oil Co. of New York, Ernakulam.	4,510	4,890	4,210	10,550
4.	Ernakulam Town, including the supply to the Harbour Works.	97,22,270	1,01,65,110	1,12,43,180	1,13,80,570
5.	The British Cochin Municipality.	6,650	6,100	18,900	9,150
		March	April	May	June
1.	The Tata Oil Mills Co., Ltd.	4,08,200	4,18,800	3,51,270	3,28,330
2	The S. I. Railway Co., Ltd.	3,02,700	2,74,700	3,32,800	3,50,000
3.	The Standard Oil Co. of New York, Ernakulam.	11,780	16,140	17,720	12,360
4.	Ernakulam Town, including the supply to the Harbour Works.	1,31,43,750	1,22,18,180	1,10,85,460	90,85,965
5.	The British Cochin Municipality.	24,270	13,980	6,050	2,545